

Dept. of Botany,  
BUTLER UNIVERSITY, Indianapolis  
BOTANICAL STUDIES

*Edited by*  
RAY C. FRIESNER

*Assisted by*  
C. MERVIN PALMER and JOHN E. POTZGER

VOLUME IX  
1949-1950

PUBLISHED AND FOR SALE BY THE  
DEPARTMENT OF BOTANY  
BUTLER UNIVERSITY  
INDIANAPOLIS 7, INDIANA  
U. S. A.

UNIVERSITY OF HAWAII  
LIBRARY



56-5021

QK1  
B995  
v.9-11

## TABLE OF CONTENTS

## VOLUME IX

1949-1950

	Page
Correlation of elongation in White and Red Pine. <i>Issued May 31, 1949.....</i> Jerry Anne Motley	1
A study of organisms in soil samples from southern Indiana which inhibit the growth of <i>Escherichia</i> <i>coli</i> and <i>Staphylococcus aureus</i> . <i>Issued May 31,</i> <i>1949 .....</i> Doris Colligan	9
Antibiotic producing organisms isolated from the White River Canal, Indianapolis, Indiana. <i>Is-</i> <i>sued May 31, 1949.....</i> Fred C. Mindach	21
Growth correlations in five species of deciduous trees. <i>Issued May 31, 1949.....</i> Charles W. Reimer	43
A comparative ecological study of two forest stands in the Illinoian Drift Plain area of south- ern Indiana. <i>Issued May 31, 1949.....</i> Jack B. Secor	60
An ecological survey of the Crawford woods, Clark County, Indiana. <i>Issued May 31, 1949....</i> Jack B. Secor	80
Molds on vegetables in Indianapolis retail markets. <i>Issued May 31, 1949.....</i> Walter A. Miller	88
Soil reactions of the Pteridophytes of the Megun- ticook Lake region near Camden, Maine. <i>Issued</i> <i>May 31, 1949.....</i> Jeanne A. Malott	93
A study in soil moisture, acidity and evaporation in an upland woods at Turkey Run State Park. <i>Issued May 31, 1949.....</i> Mary Fritsche Cundiff	108
Two new entities in the genus <i>Solidago</i> . <i>Issued</i> <i>May 31, 1949.....</i> Ray C. Friesner	124
<i>Chara hieneri</i> , a new species from Nebraska. <i>Is-</i> <i>sued May 31, 1949.....</i> Fay Kenoyer Daily	127
A pollen profile from Reed bog, Randolph County, Indiana. <i>Issued May 31, 1950.....</i> Charles D. Griffin	131



	Page
History of forests in the Glacial Lake Chicago area. <i>Issued May 31, 1950</i> .....G. K. Guennel	140
Growth-rainfall trend-co-efficients shown by six species of hardwoods in Brown County, Indiana. <i>Issued May 31, 1950</i> .....Ray C. Friesner	159
The effect of precipitation on annular-ring growth in three species of trees from Brown County, Indiana. <i>Issued May 31, 1950</i> .....Chester W. Miller	167
Polyploidy among plant species extraneous in Indi- ana. <i>Issued May 31, 1950</i> .....Frances I. Scott	176
Coastal plains flora in Indiana botanical areas. <i>Issued May 31, 1950</i> .....Virginia Lamerson	188
A comparison of the total bacterial counts of raw and pasteurized milk. <i>Issued May 31, 1950</i> ....Donald H. Holmes	197
The effect of anthocyanin filters on plant behavior and development. <i>Issued May 31, 1950</i> .....Howard E. Manning	203
Chlorophyll therapy and its relation to pathogenic bacteria. <i>Issued May 31, 1950</i> .....Mabel M. Esten and Albert G. Dannin	212
The genus <i>Liatris</i> in Indiana. <i>Issued May 31,</i> <i>1950</i> .....Carl O. Keller	218
A consideration of <i>Gomphonema parvulum</i> Kütz. <i>Issued May 31, 1950</i> .....John H. Wallace and Ruth Patrick	227
Phycologists of India. <i>Issued May 31, 1950</i> .....C. Mervin Palmer	235
An ecological study of the relationship between direction of slope, elevation and forest cover in Brown County, Indiana. <i>Issued May 31, 1950</i> ...Carl R. McQueeney	239
<i>Nitella spanioclema</i> Groves & Bullock-Webster var. <i>nidifica</i> var. nov., from Alabama. <i>Issued</i> <i>May 31, 1950</i> .....Fay Kenoyer Daily	270
<i>Tolypella prolifera</i> Leonh. in Indiana. <i>Issued May</i> <i>31, 1950</i> .....Fay Kenoyer Daily	273